

WHAT IS CLAIMED IS:

1. A electric heater with a sensor preventing no-water heating comprising:

a heating plate provided with a vertical hole, having a heating film electro-plated on a lower surface and two silver
5 terminals fixed with said heating film for connecting with wires:

a water level probe fixed in said vertical hole of said heating plate for detecting the water level of the water stored in a water tank on said heating plate, producing alteration of electric potential in case of sensing a very low water level, said
10 alteration of electric potential fed to a control circuit, said control circuit then operating to automatically cutting power off said electric heating film, with using safety of said heater enhanced.

2. The electric heater with a sensor preventing no-water
15 heating as claimed in Claim 1, wherein a metal plate is additionally provided on said heating plate.

3. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, wherein a sensing electrode is provided under said heating plate for sensing the water level.

20 4. The electric heater with a sensor preventing no-water heating as claimed in Claim 3, wherein a metal plate is additionally provided on said heating plate.

5. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, wherein a water level sensor and
25 a temperature fuse are provided under said heating plate.

6. The electric heater with a sensor preventing no-water heating as claimed in Claim 5, wherein a metal plate is additionally provided on said heating plate.

7. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, wherein said heating plate is cylindrical.

8. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, wherein said heating plate has a recess.

9. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, said heating plate has a projection.

10. The electric heater with a sensor preventing no-water heating as claimed in Claim 1, wherein said control circuit includes an A/D amplifying circuit, which magnifies signals coming from said water level probe, said sensing electrode or said water level sensor and said temperature fuse, and then sends the magnified signals to a switch, said switch automatically cutting off the power of said heating film in case of receiving the signal, preventing said heating film from heating with few or no water and keeping using safety of said heater.